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(57) Abstract :

The present disclosure discloses a water supply system with heat exchanger 100, said system 100 comprising a heat exchanging unit 110 that in turn, comprises a container 112 adapted to receive and contain water, and facilitate heat exchange at a first pre-defined rate and a plurality of extended members 114 configured across walls of the container 112, such that heat is exchanged, at a second pre-defined rate, between the water and the plurality of extended members 114. The system 100 comprises a pumping unit 120 coupled to the heat exchanging unit 110, wherein the pumping unit 120 enables pumping of the water from a first location associated with the container 112 to a second location outside the container 112. Power derived from solar energy can be utilized for operating the pumping unit 120.

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